

CARBOGRIND NANO

Ultra high-performance, intermediate-density ceramic grinding media

Sizes: 0.25-3.0mm | Apparent density: 3.75 g/cm³

Features

- Superior strength and hardness
- Uniform size and shape with excellent sphericity
- Lower density than alternatives such as steel or iron balls
- Exceptionally low internal porosity
- Chemically inert and environmentally friendly
- White color with high brightness

Benefits

- High grind efficiency
- Longer product life cycle
- Decreases product contamination
- Reduces equipment wear and maintenance costs
- Requires less energy than steel or iron balls



CARBOGRIND® NANO ultra high-performance, intermediate-density ceramic grinding media is engineered to provide unmatched economic and performance advantages in ultra-fine grinding and regrind applications. The double sintering process used in manufacturing our media results in superior strength and wear resistance with a consistent particle size and shape.

Applications and markets

- Horizontal mills
- Ultra-fine grinding for
 - Paints and pigments
 - Agrochemistry
 - Inks
 - Minerals
 - Food and beverage

Chemical and physical properties

Typical size

Product	Diameter (mm)	Diameter (in)
370-002	0.25 - 0.34	.009 - .013
370-003	0.34 - 0.44	.013 - .017
370-004	0.4 - 0.6	.015 - .023
370-006	0.6 - 0.8	.024 - .031
370-008	0.8 - 1.2	.031 - .047
370-012	1.2 - 1.6	.047 - .063
370-014	1.4 - 1.6	.055 - .063
370-016	1.6 - 1.8	.063 - .070
370-018	1.8 - 2.0	.070 - .079
370-020	2.0 - 2.5	.079 - .098
370-025	2.5 - 3.0	.098 - .118

Other sizes and densities available on request.

Typical additional properties

Apparent density (g/cm ³)	≥ 3.75 ± 0.05
Vickers hardness* (0.5 kg)	1200 ± 50
Mohs hardness	9
Thermal expansion coefficient (20-1000°C)	7-8
Sphericity	0.95
Color	White

Chemical composition

Al ₂ O ₃	SiO ₂	Other
>90	≥3	≥3

*Standard deviation as % of median
Data is subject to change due to continuous improvement of the product.

Talk to CARBO to find out how we can improve your end-product quality and reduce operating costs.

Learn more at +1 800 551 3247 | carboindustrial.com

